

CONTENTS OF VOLUME 12

Number 1

Guar Gum Derivatives. II. Foaming Properties of Hydroxyalkyl Derivatives	1
H. PRABHANJAN, M. M. GHARIA & H. C. SRIVASTAVA (India)	
Studies on Apple Protopectin: I. Extraction of Insoluble Pectin by Chemical Means	9
C. M. G. C. RENARD (France), A. G. J. VORAGEN (The Netherlands), J. F. THIBAULT (France) & W. PILNIK (The Netherlands)	
The Use of NIR Spectrophotometry to Estimate the Pectic Substances in Fruit and Fruit Products	27
A. POLESELLO, R. GIANGIACOMO, E. FORNI & F. BRAGA (Italy)	
The Determination of the Molecular Weight Distribution of Pectins by Calibrated GPC Part I. Calibration by Light Scattering and Membrane Osmometry	39
G. BERTH, H. DAUTZENBERG, D. LEXOW & ROTHER (GDR)	
Insight into the Structure of Pectin by High Performance Chromatographic Methods	61
G. BRIGAND, A. DENIS, M. GRALL & D. LECACHEUX (France)	
Industrial Pectins: Sources, Production and Applications	79
COLIN D. MAY (UK)	
Summaries of UK Patent Applications	101
News and Views	104
Bibliography on Carbohydrate Polymers	106
Book Reviews	121
Announcement	124

Number 2

Review Paper

Polysaccharides from Cyanobacteria	127
CLAUDIA BERTOCCHI, LUCIANO NAVARINI, ATTILIO CESÀRO & MAURIZIO ANASTASIO (Italy)	

Papers

Development of a Biotechnological Process for the Modification of Galactomannan Polymers with Plant α -Galactosidase	155
P. V. BULPIN, M. J. GIDLEY, R. JEFFCOAT & D. R. UNDERWOOD (UK)	
Rheology of Aqueous Solutions of an Extracellular Polysaccharide from <i>Cyanospira capsulata</i>	169
LUCIANO NAVARINI, CLAUDIA BERTOCCHI, ATTILIO CESÀRO, ROMANO LAPASIN & VITTORIO CRESCENZI (Italy)	

Composition and Properties of Mucilaginous Polysaccharide from Native and Fermented Black Gram Flour	189
G. CHANGALA REDDY, N. S. SUSHEELAMMA & R. N. THARANATHAN (India)	
Rheological Properties of Galactomannan-Based Gels. Part 1 — Guar and Hydroxypropylguar Gels in Alkaline Media	203
O. NOBLE, T. TURQUOIS & F. R. TARAVEL (France)	
Research Note	
The Vacuum Ultraviolet Circular Dichroism of Carrageenans	219
EUGENE S. STEVENS (USA) & EDWIN R. MORRIS (UK)	
News and Views	225
Bibliography on Carbohydrate Polymers	226
Book Reviews	241

Number 3

Thermodynamic Parameters of the Junction Zones in Thermoreversible Maltodextrin Gels	245
F. SCHIERBAUM, F. REUTHER (GDR), E. E. BRAUDO, I. G. PLASCHINA & V. S. TOLSTOGUZOV (Russia)	
Role of the Molecular Weight on the Mechanical Properties of Kappa Carrageenan Gels	255
C. ROCHAS, M. RINAUDO & S. LANDRY (France)	
Isolation and Chemical Characterization of Water-soluble Arabinoxylans in Rye Grain	267
S. BENGTSSON & P. ÅMAN (Sweden)	
Rheological Properties of Galactomannan-Based Gels. Part 2 — Ion Cross-Linked Galactomannan Gels	279
O. NOBLE & F. R. TARAVEL (France)	
Improvement of the Gelation Properties of Sugarbeet Pectin following Treatment with an Enzyme Preparation Derived from <i>Aspergillus niger</i> — Comparison with a Chemical Modification	295
JENNIFER A. MATTHEW, STEVEN J. HOWSON, MICHAEL H. J. KEENAN & PETER S. BELTON (UK)	
A Suitable Method for a Rapid Estimation of Sulphated Positions in Polysaccharides of Pharmacological Interest	307
JOSE KOVENSKY, JAVIER A. COVIÁN & ALICIA FERNANDEZ CIRELLI (Argentina)	
X-Ray Fiber Diffraction Studies of a Variant of Xanthan Gum in which the Sidechain Terminal Mannose Unit is Absent	315
R. P. MILLANE & T. V. NARASAIAH (USA)	
Grafting of Poly(ethylenimine) onto Mesylated Cellulose Acetate, Poly(methyl methacrylate) and Poly(vinyl chloride)	323
CHRISTOPHER J. BIERMANN & RAMANI NARAYAN (USA)	
Research Note	
Rheology of a Xanthan Broth at Low Stresses and Strains	329
MARIA M. SANTORE & ROBERT K. PRUD'HOMME (USA)	

<i>Contents of Volume 12</i>	483
Summaries of UK Patent Applications	337
Bibliography on Carbohydrate Polymers	338
Book Reviews	351
<i>Number 4</i>	
Oxidative Cross-Linking of Chemically and Enzymatically Modified Sugar-Beet Pectin	353
FABIENNE GUILLON & JEAN-FRANÇOIS THIBAULT (France)	
The Cyclodextrins and their Applications in Biotechnology	375
J. SZEJTLI (Hungary)	
Formolysis of a Potent Antitumor (1 → 6)- β -D-Glucan-Protein Complex from <i>Agaricus blazei</i> Fruiting Bodies and Antitumor Activity of the Resulting Products	393
H. KAWAGISHI, T. KANAO, R. INAGAKI, T. MIZUNO, K. SHIMURA, H. ITO, T. HAGIWARA & T. NAKAMURA (Japan)	
Alkaline N-Deacetylation of Chitin Enhanced by Flash Treatments. Reaction Kinetics and Structure Modifications	405
B. FOCHER, P. L. BELTRAME, A. NAGGI & G. TÖRRI (Italy)	
Studies on the Chemical Stability of Propylene Glycol Alginate Esters	419
C. J. GRAY, A. J. GRIFFITHS, D. L. STEVENSON & J. F. KENNEDY (UK)	
The Influence of Calcium Ions, Acetate and L-Glycerate Groups on the Gellan Double-Helix	431
R. CHANDRASEKARAN & V. G. THAILAMBAL (USA)	
Viscometric of Spectroscopic Studies on the Solution Behaviour of Hydrophobically Modified Cellulosic Polymers	443
R. TANAKA (Japan), J. MEADOWS, G. O. PHILLIPS & P. A. WILLIAMS (UK)	
News and Views	461
Bibliography on Carbohydrate Polymers	462
Book Reviews	478



